

American Micro Industries, Inc.

PRODUCT DATA SHEET: VALUE BARRIER™

DESCRIPTION:

VALUE BARRIER™ is a composite of half pound mass loaded vinyl and half inch polyether foam designed to block/absorb sound in noise polluted environments. The vinyl is a flexible, high density material with a smooth surface created to reduce noise transmission and is resistant to most acids, mild alkalis and oils/grease. The foam acts as a decoupler and an absorber. As a decoupler, it limits vibration of the mass loaded vinyl. As an absorber, it captures noise radiating from structural or airborne sources. VALUE BARRIER™ is available with a pressure sensitive adhesive (PSA) for an easy 'peel and stick' application.

APPLICATIONS:

VALUE BARRIER™ is an effective, economical option for sound abatement. It may be applied directly to drywall or attached to studs/joists prior to the administration of drywall. Block sound transmission through doors by applying VALUE BARRIER™ to one side of the door. Practical applications may include generator enclosures, compressor rooms, air conditioning unit enclosures, etc. For circumstances calling for a greater noise reduction, see DURA BARRIER™. For heavily noise polluted areas, see ULTRA BARRIER™.

PRODUCT AVAILABILITY:

- 5/8 inch thick x 4 x 8 ft. sheets (Part #: VBF05054X8)
- 5/8 inch thick x 4 x 8 ft. sheets with PSA (Part #: VBF05054X8PSA)

TECHNICAL DATA:

PROPERTIES (BARRIER)

| Physical Property | Value | Test Standard |
|-------------------|--------------------------|---------------|
| Color | Black | n/a |
| Thickness | Approx. 0.125" | n/a |
| Surface Mass | 0.50 lbs/ft ² | n/a |
| Density | 96 lbs/ft ³ | n/a |
| Elongation | 120% | ASTM D-412 |
| Tensile Strength | 407 PSI | ASTM D-412 |
| Tear Strength | 77 lbs/ 1" | ASTM D-624 |
| Temperature Range | -40°F to 255°F | n/a |
| Hardness | 90 Durometer, Shore A2 | ASTM D-2240 |
| Specific Gravity | 1.80 | ASTM D-798 |
| Stiffness | 19.60 mega pascal | ASTM 749 |
| Flammability | Meets | UL 94 HF-1 |
| | Meets | MVSS 302 |

SOUND TRANSMISSION LOSS (BARRIER)

| Freq. Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | STC |
|----------|-----|-----|-----|------|------|------|-----|
| (dB) | 5 | 12 | 15 | 22 | 26 | 32 | 20 |

American Micro Industries, Inc.

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<http://www.soundprooffoam.com>

PROPERTIES (FOAM)

| Physical Property | Value | Test Standard |
|----------------------|----------------------------------|---------------|
| Color | Charcoal Gray | n/a |
| Thickness | 0.50 " | n/a |
| Surface Density | .07 lbs/ft ² | n/a |
| Elongation | 150% - 250% | n/a |
| Tensile Strength | 14 - 20 PSI | n/a |
| Tear Resistance | 1.5 - 3.0 lbs/ 1" | n/a |
| Temperature Range | -45°F to 250°F | n/a |
| Compression Set | @50% = 10%, @90% = 20% | n/a |
| Thermal Conductivity | 0.25BTU in/hr ft ² °F | n/a |
| Oxidation Resistance | Excellent | n/a |
| Solvent Resistance | Moderate Swelling | n/a |
| Water Absorption | Hydrophobic | n/a |
| Flammability | Meets | UL 94 HF-1 |
| | Meets | MVSS 302 |

NORMAL SOUND ABSORPTION/NOISE REDUCTION (FOAM)

| Freq. Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
|----------|------|------|------|------|------|------|------|
| (%) | 0.05 | 0.07 | 0.15 | 0.24 | 0.50 | 0.88 | 0.25 |

ADHESIVE

| Physical Property | Value | Test Standard |
|-------------------|----------------|---------------|
| Material | Acrylic | n/a |
| Thickness | Approx. 0.004" | n/a |

The information contained herein is typical and based upon the results of controlled laboratory tests. The information is accurate to the best of American Micro Industries, Inc.'s knowledge. Product performance may vary based on the particular application and installation techniques utilized.

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